

Express Mail Label No. ER 813 698 327 US

LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	ATTY DOCKET NO. 706700-999186	APPLICATION NO To be determined
	APPLICANT Amin et al.	
	FILING DATE On even date herewith	GROUP To be determined

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SWL	A01	5,323,344	6-21-1994	K. Katayama, and S. Kamohara			
	A02	5,917,322	6-29-1999	N. Gershenfeld and I. Chuang			
	A03	6,495,854 B1	12-17-2002	D. Newns, and C.C. Tsuei			12-30-1999
	A04	2002/0117656 A1	8-29-2002	M.H.S. Amin et al.			4-20-2001
	A05	2002/0180006 A1	12-05-2002	M. Franz et al.			5-31-2001
	A06	09/452,749	N/A	A.M. Zagoskin			12-01-1999
SWL	A07	09/637,514	N/A	A.V. Ustinov et al.			8-11-2000

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

SWL	A08	A. Aassime, G. Johansson, G. Wendin, R. Schoelkopf, and P. Delsing, "Radio-Frequency Single-Electron Transistor as Readout Device for Qubits: Charge Sensitivity and Backaction," <i>Phys. Rev. Lett.</i> 86, pp. 3376-3379 (2001).
	A09	D.V. Averin, "Adiabatic Quantum Computation with Cooper Pairs," <i>Solid State Communications</i> 105, pp. 659-664 (1998).
	A10	G. Blatter, V.B. Geshkenbein, and L.B. Ioffe, "Design aspects of superconducting-phase quantum bits," <i>Phys. Rev. B</i> 63, pp. 17451/1-9 (2001).
	A11	G. Blatter, V.B. Geshkenbein, M.V. Feigel'man, A.L. Fauchère, and L.B. Ioffe, "Quantum Computing with Superconducting Phase Qubits," <i>Physica C</i> 352, pp. 105-109 (2001).
	A12	Mark F. Bocko, Andrea M. Herr, and Marc J. Feldman, "Prospect for Quantum Coherent Computation Using Superconducting Electronics," <i>IEEE Transactions on Applied Superconductivity</i> 7, pp. 3638-3641 (1997).
	A13	F. Benatti, et al., "Testing Macroscopic Quantum Coherence," <i>IL Nuovo Cimento B</i> 110, No. 5-6, pp. 593-610 (1995).
	A14	A. Blais, and A.M. Zagoskin, "Operation of universal gates in a solid-state quantum computer based on clean Josephson junctions between d-wave superconductors," <i>Phys. Rev. A</i> 61, 042308 (2000), pp. 042308/1-4.
	A15	H.-J. Briegel, W. Dür, J.I. Cirac, P. Zoller, "Quantum repeaters for communication", arXiv.org:quant-ph/9803056, pp. 1-8 (1998), website last accessed on December 18, 2001.
	A16	R. de Bruyn Ouboter, A.N. Omelyanchouk, and E.D. Vol, "Multi-terminal SQUID controlled by the transport current," <i>Physica B</i> 205, pp. 153-162 (1995).
SWL	A17	G. Costabile, R. Monaco, and S. Pagano, "rf-Induced steps in intermediate length Josephson-tunnel junctions," <i>J. Appl. Phys.</i> 63, pp. 5406-5410 (1988).

EXAMINER CRANE	DATE CONSIDERED 9/04
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Express Mail Label No. ER 813 698 327 US

SWC	A18	M.J. Feldman, "Digital Applications of Josephson junctions," Preprint submitted to <i>Progress of Theoretical Physics (Japan)</i> , pp. 1-16 (1997).
	A19	R. Feynman, "Simulating physics with computers," <i>International Journal of Theoretical Physics</i> 21, pp. 467-488 (1982).
	A20	J. Friedman, V. Patel, W. Chen, S.K. Tolpygo, and J.E. Lukens, "Quantum super-position of distinct macroscopic states," <i>Nature</i> 406, pp. 43-46 (2000).
	A21	M. Götz, V.V. Kharin, H. Schulze, A.B. Zorin, J. Niemeyer, E. Il'ichev, A. Chwala, H.E. Hoenig, H.-G. Meyer, "Harmonic current-phase relation in Nb-Al-based superconductor/ normal conductor/ superconductor-type Josephson junctions between 4.2 K and the critical temperature," <i>Appl. Phys. Lett.</i> 77, pp. 1354-1356 (2000).
	A22	L. Grover, "A fast quantum mechanical algorithm for database search," <i>Proceedings of the 28th Annual ACM Symposium on the Theory of Computing</i> , pp. 212-219 (1996).
	A23	L. Ioffe, V. Geshkenbein et al., "Environmentally decoupled sds-wave Josephson junctions for quantum computing," <i>Nature</i> 398, pp. 679-681 (1999).
	A24	J.A. Jones, M. Mosca, and R. H. Hansen, "Implementation of a quantum search algorithm on a quantum computer," <i>Nature</i> 393, pp. 344-346 (1998).
	A25	P. Jonker, and J. Han, "On Quantum & Classical Computing with Arrays of Superconducting Persistent Current Qubits," Proceedings Fifth IEEE International Workshop on Computer Architectures for Machine Perception, Padova, Italy, September 11-13, 2000, pp. 69-78.
	A26	A. Kitaev, "Quantum measurements and the Abelian Stabilizer Problem," arXiv:quant-ph/9511026, pp. 1-22 (1995), website last accessed on June 5, 2003.
	A27	E. Knill, R. Laflamme, and W. Zurek, "Resilient Quantum Computation," <i>Science</i> 279, pp. 342-345 (1998).
	A28	A.N. Korotkov and M.A. Paalanen, "Charge Sensitivity of Radio-Frequency Single Electron Transistor," <i>Appl. Phys. Lett.</i> 74, pp. 4052-4054 (1999).
	A29	Y. Makhlin, G. Schön, and A. Shnirman, "Quantum-State Engineering with Josephson-Junction Devices," <i>Reviews of Modern Physics</i> , Vol. 73, pp. 357-400 (2001).
	A30	Y. Makhlin et al., "Nano-electronic Circuits as Quantum Bits," 2000 IEEE International Symposium on Circuits and Systems, Emerging Technologies for the 21 st Century, Geneva, Switzerland, March 28-32, 2000, pages 241-244, volume 2.
	A31	J.E. Mooij, T.P. Orlando, L. Levitov, L. Tian, C.H. van der Wal, and S. Lloyd, "Josephson Persistent-Current Qubit," <i>Science</i> 285, pp. 1036-1039 (1999).
	A32	Y. Nakamura, Yu. A. Pashkin and J. S. Tsai, "Coherent control of macroscopic quantum states in a single-Cooper-pair box," <i>Nature</i> 398, pp. 786-788 (1999).
	A33	T.P. Orlando, J.E. Mooij, L. Tian, C.H. van der Wal, L.S. Levitov, S. Lloyd, and J.J. Mazo, "Superconducting persistent current qubit," <i>Physical Review B</i> 60, pp. 15398-15413 (1999).
	A34	R.C. Rey-de-Castro, M.F. Bocko, A.M. Herr, C.A. Mancini, and M.J. Feldman, "Design of an RSFQ Control Circuit to Observe MQC on an rf-SQUID," <i>IEEE Transactions on Applied Superconductivity</i> 11, pp. 1014-1017 (2001).
	A35	R.J. Schoelkopf, P. Wahlgren, A.A. Kozhevnikov, P. Delsing, and D.E. Prober "The Radio-Frequency Single-Electron Transistor (RF-SET): A Fast and Ultrasensitive Electrometer," <i>Science</i> 280, pp. 1238-1242 (1998).
	A36	P. Shor, "Polynomial-Time Algorithms for Prime Factorization and Discrete Logarithms on a Quantum Computer," <i>SIAM Journal on Computing</i> 26, pp. 1484-1509 (1997).
	A37	L.M.K. Vandersypen, M. Steffen, G. Breyta, C. S. Yannoni, R. Cleve and I.L. Chuang, "Experimental realization of order-finding with a quantum computer," arXiv.org:quant-ph/0007017, pp. 1-4 (2000).
	A38	C. van der Wal, A. ter Haar, F. K. Wilhelm, R. N. Schouten, C. Harmans, T. Orlando, S. Lloyd, and J. Mooij, "Quantum Superposition of Macroscopic Persistent-Current States," <i>Science</i> 290, pp. 773-777 (2000).
SWC	A39	A. Wallraff, Yu. Koval, M. Levitchev, M. V. Fistul, and A. V. Ustinov, "Annular Long Josephson Junctions in a Magnetic Field: Engineering and Probing the Fluxon Interaction Potential," <i>J. Low Temp. Phys.</i> 118, pp. 543-553 (2000).

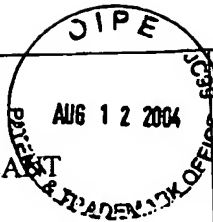
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2818**U.S. PATENT DOCUMENTS**

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SWC	A40	US-6,649,929	11-2003	Newns et al.			
SWC	A41	US-6,563,311	05-2003	Zagoskin			

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